

What is claimed is:

1. A short arc discharge lamp comprising:
an arc tube,
hermetically sealed tubes which extend from the arc tube,
electrodes located within the arc tube,
lead pins supporting the electrodes and sealed within the hermetically sealed tubes by
graded glass, said lead pins penetrating cylindrical retaining bodies which are made of glass and
are attached concentrically within the hermetically sealed tubes, and
a metal foil positioned between each glass cylindrical retaining body and each lead pin,
wherein the metal foil has a plurality of cambers which extend in an axial direction of
the lamp.
2. The short arc discharge lamp as claimed in claim 1, wherein the cambers are
located at essentially the same distance relative to one another.
3. The short arc discharge lamp as claimed in claim 1, wherein the cambers extend
over the entire length of the metal foil.
4. The short arc discharge lamp as claimed in claim 1, wherein the cambers have
essentially the same shape.
5. The short arc discharge lamp as claimed in claim 4, wherein the cambers project
on both sides of a center plane of the metal foil with essentially the same shape and size on each
side of the center plane.
6. The short arc discharge lamp as claimed in claim 5, wherein the cambers have a
sinusoidal cross section.
7. The short arc discharge lamp as claimed in claim 1, wherein the metal foil is
wound around the lead pin such that the metal foil surrounds the lead pin in at least one layer.

8. The short arc discharge lamp as claimed in claim 7, wherein the metal foil is wound around the lead pin such that sections of the metal foil come to rest on each other.

9. The short arc discharge lamp as claimed in claim 1, wherein the metal foil is constructed such the intermediate spaces bordered by the cambers have an essentially identical opening cross section.

10. The short arc discharge lamp as claimed in claim 1, wherein the metal foil is composed of molybdenum.

11. The short arc discharge lamp as claimed in claim 1, wherein the metal foil has a sinusoidal configuration which runs in a circumferential direction about the lead pins.

12. The short arc discharge lamp as claimed in claim 1, wherein the cambers of the metal foil define a series of axially extending gaps of uniform cross-sectional area.